

Claims

1. Fluid injector with

- an actuator unit (3),

- a cartridge (7) which comprises a recess (9), which on one 5 of its open ends forms an injection nozzle (11) and takes in a needle,

- the needle, that comprises a first and second part (15, 17) with the first part (15) being inserted into the recess (7) and closing or opening the injection nozzle (11) depending on 10 the position of the first part (15), with the second part (17) being coupled to the actuator unit (3) on one of its free ends and being coupled to the first part (15) via a coupling unit (19), which is arranged in positive connection to the first part (15) and is joined to the second part (17).

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2. Fluid injector with the coupling unit forming a spring rest (31), on which a return spring (33) rests, that urges the needle in a position where the injection nozzle (11) is closed.

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3. Fluid injector with a receptance (21), which is formed in the first part (15) and fixes a keeper (23) in axial direction relative to the needle, and a coupling body (25), which has a recess (27), through which the first part (15) 25 protrudes and which takes in the keeper (23) and fixes it in the radial direction relative to the needle and with the coupling body (25) being joined to the second part.

4. Fluid injector with the coupling unit (19) being joined to 30 the second part (17) by welding.